

# PATENT ABSTRACTS OF JAPAN

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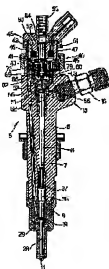
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## (54) ELECTROMAGNET FOR CONTROLLING METERING VALVE OF FUEL INJECTOR



(57)Abstract:

**PURPOSE:** To reduce a magnetism loss and a manufacturing cost by consisting of the fixed core by a magnetic material, a magnetized coil and the armature for starting a valve and sintering the fixed core after pressing the mixture of powdered ferrous material and epoxy binder.

**CONSTITUTION:** A fuel injector 5 is provided with a hollow body 6 in which a control rod 8 is inserted slidably. An injection orifice 11 shut by a pin 28 connected to the control rod 8 is provided on the final

end of the hollow body 6. A metering valve 40 consisting of a fixed sleeve 41 for

supporting the electromagnet 42 for controlling the disc shape armature 43 made by a magnetite is provided on the other end of the hollow body 6. The electromagnet 42 has a fixed core 46 in which the annular seat 45 surrounded a magnetized coil 47 is formed. This fixed core 46 is formed by pressurizing and forming the powdered ferrous material of ferrite and epoxy binder inside the die and sintering inside a furnace.